

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start		Rating **	A	Issue No.	<b>4</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_MA0003_01_s _ 2013_4				
Comment Code					
Inspector Comment					
Sutter Yard has a copy of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	<b>6</b>
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_MA0003_01_s _ 2013_6				
Comment Code					
Inspector Comment					
The Sutter Yard has adequate flood fight supplies and equipment.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start		Rating **	A	Issue No.	7	
LM End		Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_MA0003_01_s_2013_7					
Comment Code						
Inspector Comment						
The Sutter Yard has received flood fight training.						

No Photos

LM Start	0.01	Rating **	M	Issue No.	12
LM End	5.11	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.897973 °	38.950881 °
				-121.617817 °	-121.585758 °
DWR ID	DWR_MA0003_01_s_2017_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual grasses need to be maintained, Spring 2017.					

Photo 1 of 1 : SP\_2017\_MA0003\_195\_12\_20170410\_00031.jpg



View looking upstream of annual grasses that need to be maintained, Spring 2017.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	0.01	Rating **	M	Issue No.	11
LM End	5.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.897973 °	38.950881 °
				-121.617816 °	-121.585758 °
DWR ID	DWR_MA0003_01_s_2017_11				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Annual grasses need to be maintained, Spring 2017.					

Photo 1 of 1 : SP\_2017\_MA0003\_195\_11\_20170410\_00030.jpg



View looking upstream of annual grasses that need to be maintained, Spring 2017.

LM Start	0.42	Rating **	M	Issue No.	13
LM End	0.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.900811 °	38.900811 °
				-121.611604 °	-121.611604 °
DWR ID	DWR_MA0003_01_s_2017_13				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
A large hole on the waterside that look to be from a large animal needs repair, Spring 2017.					

Photo 1 of 1 : SP\_2017\_MA0003\_195\_13\_20170410\_00032.jpg



View of a large hole on the waterside that look to be from a large animal, Spring 2017.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	0.69	Rating **	M	Issue No.	17
LM End	0.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.903352 °	38.903352 °
				-121.607829 °	-121.607829 °
DWR ID	DWR_MA0003_01_s_2017_17				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
A large hole on the lanside that look to be from a large animal needs to be repaired, Spring 2017.					

Photo 1 of 1 : SP\_2017\_MA0003\_195\_17\_20170410\_00033.jpg



View of a large hole on the landside that look to be from a large animal, Spring 2017.

LM Start	0.78	Rating **	M	Issue No.	140
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.903339 °	38.903339 °
				-121.606209 °	-121.606209 °
DWR ID	DWR_MA0003_01_f_2014_140				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There is a rodent hole on the landward toe road approximately 8" in diameter that needs to be repaired. Fall 2016.					

Photo 1 of 2 : SP\_2017\_MA0003\_195\_140\_20170316\_00013.jpg



This photo was taken from the landward levee slope near the toe road facing north looking at an approximately 8" rodent hole. Fall 2016.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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### Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	0.78	Rating **	M	Issue No.	140 (cont)
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.903339 °	38.903339 °
				-121.606209 °	-121.606209 °
DWR ID	DWR_MA0003_01_f_2014_140				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There is a rodent hole on the landward toe road approximately 8" in diameter that needs to be repaired. Fall 2016.					

Photo 2 of 2 : SP\_2017\_MA0003\_195\_140\_20170316\_00014.jpg



This is another photo of the rodent hole to show its relationship to levee toe, toe road, and drainage ditch. Fall 2016.

LM Start	0.80	Rating **	M	Issue No.	21
LM End	0.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.903277 °	38.903277 °
				-121.605864 °	-121.605864 °
DWR ID	DWR_MA0003_01_f_2016_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair animal hole at landside levee toe. Fall 2016.					

Photo 1 of 2 : SP\_2017\_MA0003\_195\_21\_20170316\_00011.jpg



View of large hole at the landside levee toe. Look to be cause by a larger animal other than squirrels. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	0.80	Rating **	M	Issue No.	21 (cont)	
LM End	0.80	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			38.903277 °		38.903277 °
				-121.605864 °		-121.605864 °
DWR ID	DWR_MA0003_01_f_2016_21					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
Repair animal hole at landside levee toe. Fall 2016.						

Photo 2 of 2 : SP\_2017\_MA0003\_195\_21\_20170316\_00012.jpg



View from the crown of where this hole is. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	0.81	Rating **	U	Issue No.	141
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51474  
DS\_ID:17092  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard- A Freitag)10/10/2016 WS pipe end was underwater for inspection but the sandbags still appear to be in place. (DWR Sutter Yard - a Freitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - a Freitag)5/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - a Freitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - a Freitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - wwwylie)  
FIELD\_STRUCT\_DESC: 1 of 2. 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" shaped headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955 (Station 982+00)].  
FS Date: 4/12/2017 9:00:16 AM

Photo 1 of 3 : UCIP\_SP\_2017\_51474\_64649.jpg



Concrete headwall with walkway and slide gates at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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### Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	0.81	Rating **	U	Issue No.	141 (cont)
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51474  
DS\_ID:17092  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard- A Freitag)10/10/2016 WS pipe end was underwater for inspection but the sandbags still appear to be in place. (DWR Sutter Yard - a Freitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - a Freitag)5/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - a Freitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - a Freitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - wwwylie)  
FIELD\_STRUCT\_DESC: 1 of 2. 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" shaped headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955 (Station 982+00)].  
FS Date: 4/12/2017 9:00:16 AM

Photo 2 of 3 : UCIP\_SP\_2017\_51474\_64648.jpg



Concrete U shaped headwall on WS toe filled in with Sandbags. 16-inch pipe shown over top of headwall.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	0.81	Rating **	U	Issue No.	141 (cont)
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51474  
DS\_ID:17092  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard- A Freitag)10/10/2016 WS pipe end was underwater for inspection but the sandbags still appear to be in place. (DWR Sutter Yard - a Freitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - a Freitag)5/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - a Freitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - a Freitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - a Freitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - a Freitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - wwwylie)  
FIELD\_STRUCT\_DESC: 1 of 2. 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" shaped headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955 (Station 982+00)].  
FS Date: 4/12/2017 9:00:16 AM

Photo 3 of 3 : UCIP\_SP\_2017\_51474\_64647.jpg



Concrete U shaped headwall filled in with sandbags on WS toe. Flap gates appear to be missing and water readily flows through the sandbags from LS.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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### Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	0.81	Rating **	U	Issue No.	142
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

Comment Code
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Inspector Comment
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FS\_ID:51475  
DS\_ID:17136  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard - afreitag)10/10/2016 WS pipe end was underwater for the inspection but the sandbags appear to still be in place. (DWR Sutter Yard - afreitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - afreitag)5/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - afreitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - wwwylie)  
FIELD\_STRUCT\_DESC: 2 of 2. 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955 (Station 982+00)].  
FS Date: 4/12/2017 9:05:05 AM

Photo 1 of 3 : UCIP\_SP\_2017\_51475\_64662.jpg



Concrete headwall, slidegates, and metal walkway on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	0.81	Rating **	U	Issue No.	142 (cont)
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

Comment Code
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Inspector Comment
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FS\_ID:51475  
DS\_ID:17136  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard - afreitag)10/10/2016 WS pipe end was underwater for the inspection but the sandbags appear to still be in place. (DWR Sutter Yard - afreitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - afreitag)5/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - afreitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - wwwylie)  
FIELD\_STRUCT\_DESC: 2 of 2. 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955 (Station 982+00)].  
FS Date: 4/12/2017 9:05:05 AM

Photo 2 of 3 : UCIP\_SP\_2017\_51475\_64661.jpg



Concrete U shaped headwall on WS toe filled with sandbags.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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### Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	0.81	Rating **	U	Issue No.	142 (cont)
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.903264 °	38.903264 °
				-121.605698 °	-121.605698 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51475  
DS\_ID:17136  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 4/11/2017 Water levels were high on WS during inspection so pipe ends could not be inspected. Believe that the sandbags are still in place and condition of flap gates is unknown. (DWR Sutter Yard- afreitag)10/10/2016 WS pipe end was underwater for the inspection but the sandbags appear to still be in place. (DWR Sutter Yard - afreitag)4/18/2016 No repairs have been made to the pipe yet. (DWR Sutter Yard - afreitag)5/12/2015 Water level high in WS ditch so could not see WS end of crossing. Do not believe that repairs have been made yet. (DWR Sutter Yard - afreitag)11/17/2014 Same as last inspection. (DWR Sutter Yard - afreitag)5/14/2014 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)5/21/2013 SBFCA project recommends replacing in accordance with title 23. High water levels in WS ditch have pipe ends underwater but repairs have not yet been completed but are planned for when water levels drop. (DWR Sutter Yard - afreitag)10/10/2012 Flap gates not visible on waterward headwall and it appears as though they have been replaced by sandbags. Slide gates on LS appear to be closed yet water leaks excessively from the WS at the sandbagged headwall. (DWR UCIP - wwwylie)  
FIELD\_STRUCT\_DESC: 2 of 2. 18-inch steel drainage pipe through the levee, 32 feet below the crown. Flap gate on the waterside (WS) end. Slide gate on the landside (LS) end at concrete headwall. Concrete "U" headwall at the WS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 143, August 1955 (Station 982+00)].  
FS Date: 4/12/2017 9:05:05 AM

Photo 3 of 3 : UCIP\_SP\_2017\_51475\_64660.jpg



Flap gates appear to be missing from U shaped headwall. Sandbags fill headwall but water flows heavily from LS.

<b>* Location</b> LS : Land Side WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	1.77	Rating **	A/W	Issue No.	14
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.907025 °	38.907025 °
				-121.590375 °	-121.590375 °
DWR ID	DWR_MA0003_01_s_2015_14				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes have been backfilled and no new evidenced of activity. Fall 2016.					

Photo 1 of 1 : SP\_2017\_MA0003\_195\_14\_20170316\_00005.jpg



Rodent holes were backfilled and no longer exist at this location. Fall 2016.

LM Start	2.18	Rating **	M	Issue No.	15
LM End	2.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.911869 °	38.911869 °
				-121.586093 °	-121.586093 °
DWR ID	DWR_MA0003_01_s_2015_15				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree is at a turnout and not in the levee, but limbs should be trimmed for access and visibility.					

Photo 1 of 1 : SP\_2017\_MA0003\_195\_15\_20170316\_00006.jpg



View of tree at a turnout that needs to have its limbs trimmed for visibility and access, landside looking downstream. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	2.18	Rating **	A/W	Issue No.	18
LM End	2.18	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.911869 °	38.911869 °
				-121.586093 °	-121.586093 °
DWR ID	DWR_MA0003_01_s_2015_18				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_MA0003\_195\_18\_20170316\_00008.jpg



View of rodent holes that need to be backfilled, No evidence of rodents during inspection. Fall 2016.

LM Start	3.20	Rating **	A/W	Issue No.	20
LM End	3.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.925909 °	38.925909 °
				-121.585401 °	-121.585401 °
DWR ID	DWR_MA0003_01_s_2015_20				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_MA0003\_195\_20\_20170316\_00010.jpg



View of the inconsistent slope that makes the crown narrower were it dips in and out, but no evidence of slope erosion or sloughing. Fall 2016.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	4.15	Rating **	M	Issue No.	1
LM End	4.18	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.937451 °	38.937937 °
				-121.588512 °	-121.588471 °
DWR ID	DWR_MA0003_01_s_2016_1				
Comment Code					
Inspector Comment					
2013 - Minor toe scour causing gradual erosion of bank slope. Site is within ecological reserve. 2015: Last observed in 2013. [2015 Site ID: FHR_12-3_R]					

Photo 1 of 2 : SP\_2017\_MA0003\_195\_1\_20170316\_00001.jpg



USACE 2013 Photo #1

LM Start	<b>4.15</b>	Rating **	M	Issue No.	<b>1 (cont)</b>
LM End	<b>4.18</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2017\_MA0003\_195\_1\_20170316\_00002.jpg



USACE 2013 Photo #2

LM Start	4.71	Rating **	M	Issue No.	2
LM End	4.76	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.945188 °	38.945958 °
				-121.586096 °	-121.586394 °
DWR ID	DWR_MA0003_01_s_2016_2				
Comment Code					
Inspector Comment					
2013 - Minor toe scour causing gradual erosion into the bank slope.					
2015: Last observed in 2013. [2015 Site ID: FHR_12-8_R]					

Photo 1 of 2 : SP\_2017\_MA0003\_195\_2\_20170316\_00003.jpg



USACE 2013 Photo #1

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

### Sutter Maintenance Yard Maintenance Area 0003

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	5.11	04/06/2017 04/06/2017	Sterling York

LM Start	4.71	Rating **	M	Issue No.	2 (cont)	
LM End	4.76	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2015 USACE Erosion Survey, DRAFT			38.945188 °	38.945958 °	
				-121.586096 °	-121.586394 °	
DWR ID	DWR_MA0003_01_s_2016_2					
Comment Code						
Inspector Comment						
2013 - Minor toe scour causing gradual erosion into the bank slope.						
2015: Last observed in 2013. [2015 Site ID: FHR_12-8_R]						

Photo 2 of 2 : SP\_2017\_MA0003\_195\_2\_20170316\_00004.jpg



USACE 2013 Photo #2

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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